

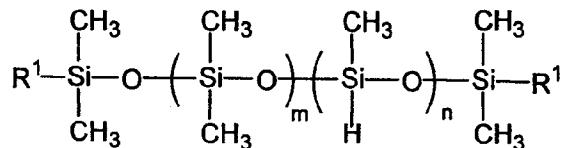
CLAIMS

1. A method of manufacturing a purified product of a liquid medium-chain alkyl-modified polydimethylsiloxane comprising the steps of:

[A] synthesizing a liquid medium-chain alkyl-modified polydimethylsiloxane represented by general formula (2), given below, by carrying out a hydrosilylation reaction between a hydrosilyl-containing polydimethylsiloxane of formula (1) and an α -olefin with 4 to 18 carbon atoms; and

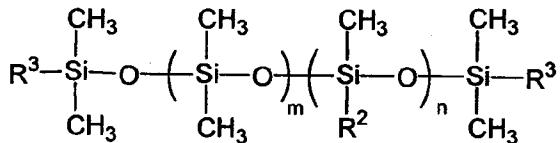
[B] subjecting a crude product of the liquid medium-chain alkyl-modified polydimethylsiloxane obtained in preceding step [A] to an odor-removing treatment by conducting a hydrogenation reaction which is carried out in the presence of a hydrogenation catalyst:

General Formula (1)



(where R^1 represents a hydrogen atom or a methyl group; "m" is an integer from 0 to 6; and "n" is an integer from 0 to 3; however, when "n" is 0, then at least one R^1 represents a hydrogen atom).

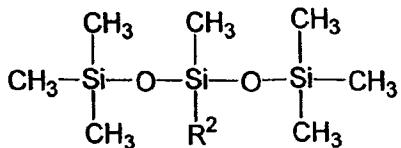
General Formula (2)



(where R^2 represents an alkyl group with 4 to 18 carbon atoms; R^3 are groups represented by R^2 above or a methyl group; and "m" and "n" are the same numbers as defined above for general formula (1); however, when "n" is 0, at least one R^3 is the same group as defined for R^2).

2. The method of manufacturing a purified product of a liquid medium-chain alkyl-modified polydimethylsiloxane according to Claim 1, wherein in step [A] a liquid medium-chain alkyl-modified polydimethylsiloxane of general formula (3), given below, is synthesized by conducting a hydrosilylation reaction between 1,1,1,3,5,5,5-heptamethyltrisiloxane and an α -olefin having 4 to 18 carbon atoms:

General Formula (3)



[where R² is the same as defined above for general formula (2)]

3. The method of manufacturing a purified product of a liquid medium-chain alkyl-modified polydimethylsiloxane according to Claim 1 or Claim 2, further comprising a step of stripping a crude product of the liquid medium-chain alkyl-modified polydimethylsiloxane and/or a product of hydrogenation from light substances prior to and/or after step [B] by bringing said crude product of the liquid medium-chain alkyl-modified polydimethylsiloxane and/or a product of hydrogenation in contact with gaseous nitrogen under conditions of reduced pressure.
4. A cosmetic material that contains a purified product of the liquid medium-chain alkyl-modified polydimethylsiloxane produced by the method according to any of Claims from 1 to 3.
5. A cosmetic material prepared from a water-in-oil emulsion having an oiling agent in the form of a purified product of the liquid medium-chain alkyl-modified polydimethylsiloxane produced by the method according to any of Claims from 1 to 3.
6. A cosmetic material prepared from a water-in-oil emulsion comprising: (a) 0.1 to 95 mass % of an oiling agent which is the liquid medium-chain alkyl-modified polydimethylsiloxane obtained by the method according to any of Claims 1 to 3; (b) 0.1 to 25 mass % of a surface-active agent with the value of HLB equal to or below 7; and (c) 4.9 to 95 mass % of water.